Drug Status Report

**Drug:** Gamma-Methyl-alpha-methylenebutyrolactone

**Drug Name Status:** Gamma-Methyl-alpha-methylenebutyrolactone is the common name

**Chemical Name:** Dihydro-5-methyl-3-methylene-2(3H)-furanone

**Chemical structure:**

\[
\text{H}_2\text{C} = \text{C} - \text{O} - \text{CH}_3
\]

\[
\text{O} \quad \text{O}
\]

**Molecular Formula:** \( C_6H_8O_2 \)

**Pharmacological/chemical class / Application:** fine chemical

**International status:**

US: Gamma-Methyl-alpha-methylenebutyrolactone is not listed on the schedules to the CSA and is not mentioned on the DEA website.

United Nations: The substance is not listed on the Yellow List - List of Narcotic Drugs under International Control nor the Green List - List of Psychotropic Substances under International Control.

Canadian Status: Item 18 of Part I of Schedule VI is “Gamma-butyrolactone (Dihydro-2(3H)-furanone)” which is also known as GBL. Although gamma-methyl-alpha-methylenebutyrolactone is structurally similar to GBL it is not included in this item as analogues of gamma-butyrolactone are not included in item 18.

Recommendation: Gamma-Methyl-alpha-methylenebutyrolactone is not included in the schedules to the CDSA and is not a controlled substance.

September 4, 2008 (Revised September 10, 2008)